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			2612		
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Please find below and/or attached an Office communication concerning this application or proceeding.

W)

	Application No		Applicant(s)	XD
	09/291,936		TAMUNE, MICHIHI	RO /
Office Action Summary	Examiner		Art Unit	
	James M Hanne		2612	
The MAILING DATE of this communication app Period for Reply	pears on the cove	er sheet with the c	orrespondence add	ress
A SHORTENED STATUTORY PERIOD FOR REPL' THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.1 after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a repl - If NO period for reply is specified above, the maximum statutory period - Failure to reply within the set or extended period for reply will, by statute - Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b). Status	136(a). In no event, how	vever, may a reply be tim inimum of thirty (30) day: e SIX (6) MONTHS from to become ABANDONE	nely filed s will be considered timely. the mailing date of this con D (35 U.S.C. § 133).	nmunication.
1) Responsive to communication(s) filed on	<u> </u>			
2a) This action is FINAL . 2b) ☑ Th	nis action is non-	final.		
3) Since this application is in condition for allow closed in accordance with the practice under	ance except for Ex parte Quayle	formal matters, pr e, 1935 C.D. 11, 4	rosecution as to the 153 O.G. 213.	e merits is
Disposition of Claims	n			
4) ⊠ Claim(s) <u>1-18</u> is/are pending in the application		eration		
4a) Of the above claim(s) is/are withdra	Wil Holli Collaide	ration.		
5) Claim(s) is/are allowed.				
6) Claim(s) <u>1-18</u> is/are rejected.				
7) Claim(s) is/are objected to. 8) Claim(s) are subject to restriction and/o	or election requi	rement		
Application Papers	or election requi	Cirione.		
9) The specification is objected to by the Examine	er.			
10)⊠ The drawing(s) filed on <u>15 April 1999</u> is/are: a)		objected to by t	he Examiner.	
Applicant may not request that any objection to the				
11) The proposed drawing correction filed on				er.
If approved, corrected drawings are required in re	eply to this Office	action.		
12)☐ The oath or declaration is objected to by the E	xaminer.			
Priority under 35 U.S.C. §§ 119 and 120				•
13) Acknowledgment is made of a claim for foreig	gn priority under	35 U.S.C. § 119(a	a)-(d) or (f).	
a) All b) Some * c) None of:				
 Certified copies of the priority documer 	nts have been re	ceived.		
2. Certified copies of the priority documer	nts have been re	ceived in Applicat	ion No	
 3. Copies of the certified copies of the prication from the International B * See the attached detailed Office action for a list 	ureau (PCT Ruk	e 17.2(a)).		Stage
14) Acknowledgment is made of a claim for domes				application).
a) ☐ The translation of the foreign language p 15)☐ Acknowledgment is made of a claim for domes	rovisional applic	ation has been re	ceived.	
Attachment(s)	•			
1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO-1449) Paper No(s)	4) [5) [6) [Notice of Informal	ry (PTO-413) Paper No Patent Application (PT	

Art Unit: 2612

DETAILED ACTION

Claim Rejections - 35 USC § 112

The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

Claims 1-8, 13, 14, and 18 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

Regarding claims 3, 4, 8, 9, 10, 13, 14, and 18, the phrase "such as" renders the claims indefinite because it is unclear whether the limitations following the phrase are part of the claimed invention. See MPEP § 2173.05(d).

Regarding claims 1-10 the phrase "the position adjacent to the position that is conjugate" renders the claim indefinite because it is unclear what the limitation means and the specification does not clarify, since it merely repeats the same language. See MPEP § 2173.05(d).

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

Claims 1-4, and 9-14 are rejected under 35 U.S.C. 102(b) as being anticipated by USPN 5,995,144 Sasakura.

Art Unit: 2612

As for Claim 1, Sasakura teaches in Figure 5 the use of a photographing image capturing device (10) that outputs image data by capturing a subject image passing through a taking lens (1). Sasakura teaches in Figure 5 the use of an analytic image capturing device (7) provided at a position adjacent to the position that is conjugate with the photographic image capturing device (10) relative to the taking lens (1), that receives light forming the subject image and outputs image data for scene analysis. Sasakura teaches in Figure 5 and on Column 4, Lines 39-51 the use of a system controller or (analyzing circuit) that performs scene analysis of the subject image based upon the image data for scene analysis output by the analytic image-capturing device (7). Sasakura teaches in Figure 5 and on Column 6, Lines 5-20 the use of an image processing circuit (11) that performs image processing on the image data output by the photographic image-capturing device (10) based upon scene analysis results output by the analyzing circuit (14).

In regards to Claim 2, Sasakura teaches on Columns 6-7 Lines 66-67, and 1-5 that the analytic image capturing device (7) has a smaller number of pixels (40 pixels) than the photographic image capturing device (10). Sasakura teaches that the image sensor (10) is a CCD image sensor. It is inherent in the design of a CCD image sensor for use in digital photography to have more than 40 pixels.

As for Claim 3, Sasakura teaches in Figure 5 and on Column 4, Lines 39-51 the use of a system controller or (analyzing circuit) that performs scene analysis of the subject image based upon the image data for scene analysis output by the analytic image-capturing device (7). Sasakura teaches in Figure 5 and on Column 6, Lines 5-20 the system controller (14) is supplied with the image data for scene analysis output by the analytic image-capturing device (7). And

Art Unit: 2612

calculates in advance coefficients to be used for image processing based upon the image data for scene analysis.

In regards to Claim 4, Sasakura teaches in Figures 2 and 5 and on Columns 6-7 Lines 66-67, and 1-5 and that the analytic image capturing device (7) is divided into a plurality of areas (2 areas) each having a plurality of pixels receiving the subject image and the analyzing circuit (14) calculates the parameters based upon image data for scene analysis output from the two areas (7a and 7b).

As for Claim 11, Sasakura teaches in Figure 5 the use of a first image-capturing device (10) that outputs image data by capturing a subject image passing through a taking lens (1). Sasakura teaches in Figure 5 the use of a second image-capturing device (7) that outputs image data by capturing a subject image passing through a taking lens (1). Sasakura teaches in Figure 5 and on Column 4, Lines 39-51 the use of a system controller or (analyzing circuit) that performs scene analysis of the subject image based upon the image data for scene analysis output by the second image-capturing device (7). Sasakura teaches in Figure 5 and on Column 6, Lines 5-20 the use of an image processing circuit (11) that performs image processing on the image data output by the first image-capturing device (10) based upon scene analysis results output by the analyzing circuit (14).

In regards to Claim 12, Sasakura teaches on Columns 6-7 Lines 66-67, and 1-5 that the first image capturing device (7) has a smaller number of pixels (40 pixels) than the first image capturing device (10). Sasakura teaches that the image sensor (10) is a CCD image sensor. It is inherent in the design of a CCD image sensor for use in digital photography to have more than 40 pixels. Sasakura teaches in Figure 5 and on Column 4, Lines 39-51 the use of a system

Art Unit: 2612

controller or (analyzing circuit) that performs scene analysis of the subject image based upon the image data for scene analysis output by the second image-capturing device (7).

As for Claim 13, Sasakura teaches in Figure 5 and on Column 4, Lines 39-51 the use of a system controller or (analyzing circuit) that performs scene analysis of the subject image based upon the image data for scene analysis output by the second image-capturing device (7). Sasakura teaches in Figure 5 and on Column 6, Lines 5-20 the system controller (14) is supplied with the image data for scene analysis output by the second image-capturing device (7). And calculates in advance coefficients to be used for image processing based upon the image data for scene analysis.

In regards to Claim 14, Sasakura teaches in Figures 2 and 5 and on Columns 6-7 Lines 66-67, and 1-5 and that the image capturing device (7) is divided into a plurality of areas (2 areas) each having a plurality of pixels receiving the subject image and the analyzing circuit (14) performs scene analysis based upon image data for scene analysis output from the two areas (7a and 7b).

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claims 5-7, and 15-17 are rejected under 35 U.S.C. 103(a) as being unpatentable over USPN 5,995,144 Sasakura in view of USPN 5,523,785 Muramoto.

As for Claim 5, Sasakura teaches the claimed invention as discussed in Claim 2.

Art Unit: 2612

Sasakura does not teach that the analyzing circuit calculates the gradation curve based upon brightness values in the image data for scene analysis; and that the image processing circuit corrects photographic image data based upon the gradation curve.

Muramoto teaches the use of a digital camera that can correct both the white balance and gamma of an image. Muramoto teaches on Column 1, Lines 32-61 the use of an analyzing circuit that calculates the gradation curve based on brightness values in the image data; and teaches that image processing corrects the image data based on the data from the gamma correction circuit.

Therefore, it would have been obvious to one of ordinary skill in the art at the time the invention was made to enable the system controller (14) of Sasakura with the gamma correction circuitry of Muramoto to enable a digital camera to correct the gamma of a photographed image.

In regards to Claim 6, Sasakura teaches in Figures 2 and 5 and on Columns 6-7 Lines 66-67, and 1-5 that the analytic image capturing device (7) is divided into a plurality of areas (2 areas) each having a plurality of pixels receiving the subject image and the analyzing circuit (14) calculates the gamma curve based upon image data for scene analysis output from the two areas (7a and 7b).

As for Claim 7, Sasakura teaches the claimed invention as discussed in Claim 2.

Sasakura teaches that the analyzing circuit (14) calculates gains for white balance adjustment based upon the signals from the analytic image capturing device (7) and the image processing circuit (11) corrects the image data based upon gains for white balance adjustment.

Sasakura does not specifically teach that the image data for scene analysis output by the analytic image capturing device contains RGB signals.

Art Unit: 2612

Muramoto teaches that RGB color signals output from a CCD are commonly used for white balance adjustment in a white balance adjusting circuit (6).

Therefore, it would have been obvious to one of ordinary skill in the art at the time the invention was made to enable the digital camera of Sasakura with a color analytic image capturing device as taught by Muramoto.

As for Claim 15, Sasakura teaches the claimed invention as discussed in Claim 12.

Sasakura does not teach that the analyzing circuit calculates the gradation curve based upon brightness values in the image data for scene analysis; and that the image processing circuit corrects photographic image data based upon the gradation curve.

Muramoto teaches the use of a digital camera that can correct both the white balance and gamma of an image. Muramoto teaches on Column 1, Lines 32-61 the use of an analyzing circuit that calculates the gradation curve based on brightness values in the image data; and teaches that image processing corrects the image data based on the data from the gamma correction circuit.

Therefore, it would have been obvious to one of ordinary skill in the art at the time the invention was made to enable the system controller (14) of Sasakura with the gamma correction circuitry of Muramoto to enable a digital camera to correct the gamma of a photographed image.

In regards to Claim 16, Sasakura teaches in Figures 2 and 5 and on Columns 6-7 Lines 66-67, and 1-5 that the second image capturing device (7) is divided into a plurality of areas (2 areas) each having a plurality of pixels receiving the subject image and the analyzing circuit (14) calculates the gamma curve based upon image data for scene analysis output from the two areas (7a and 7b).

As for Claim 17, Sasakura teaches the claimed invention as discussed in Claim 12.

Art Unit: 2612

Sasakura teaches that the analyzing circuit (14) calculates gains for white balance adjustment based upon the signals from the second image capturing device (7) and the image processing circuit (11) corrects the image data based upon gains for white balance adjustment.

Sasakura does not specifically teach that the image data for scene analysis output by the second image capturing device contains RGB signals.

Muramoto teaches that RGB color signals output from a CCD are commonly used for white balance adjustment in a white balance adjusting circuit (6).

Therefore, it would have been obvious to one of ordinary skill in the art at the time the invention was made to enable the digital camera of Sasakura with a color second image capturing device as taught by Muramoto.

Claims 9 and 10 are rejected under 35 U.S.C. 103(a) as being unpatentable over USPN 5,995,144 Sasakura in view of USPN 6,157,781 Konno et al.

As for Claim 9, Sasakura teaches the use of a viewfinder device to which a subject image passes through a taking lens (1) is guided by a mirror (2). Sasakura teaches in Figure 5 the use of a photographing image capturing device (10) provided at a stage to the rear of a quick return mirror (2), that outputs image data by capturing a subject image. Sasakura teaches in Figure 5 the use of an analytic image capturing device (7) provided at a position adjacent to the position that is conjugate with the photographic image capturing device (10) relative to the taking lens (1), that receives light forming the subject image guided to the viewfinder device (6) from the mirror (3) and outputs image data for scene analysis. Sasakura teaches in Figure 5 and on Column 6, Lines 5-20 the use of a system controller (14) or (arithmetic operation circuit) that is supplied with the image data for scene analysis output by the analytic image capturing device (7). And

Art Unit: 2612

calculates in advance coefficients to be used for image processing based upon the image data for scene analysis. Sasakura teaches in Figure 5 and on Column 6, Lines 5-20 the use of an image processing circuit (11) that performs image processing on the image data output by the photographic image-capturing device (10) using the parameters calculated at the arithmetic operating circuit (14).

Sasakura does not teach that the mirror (2) can be a quick return mirror. Konno et al teaches on Column 3, Lines 38-45 and in figure 1 the use of a quick return mirror arranged to be swingable into two different states. Konno et al teaches that one of the states is a state in which the mirror is outside of a photo-taking interchangeable lens barrel.

Therefore, it would have been obvious to one of ordinary skill in the art at the time the invention was made to replace the mirror of Sasakura with a quick return mirror as taught by Konno et al in order to allow the mirror to be hidden from view when a lens barrel is removed in order to prevent dirt and dust from accumulating on the mirror.

In regards to Claim 10, Sasakura teaches the use of a viewfinder device to which a subject image passes through a taking lens (1) is guided by a mirror (2). Sasakura teaches in Figure 5 the use of a photographing image capturing device (10) provided at a stage to the rear of a quick return mirror (2), that outputs image data by capturing a subject image. Sasakura teaches in Figure 5 the use of an analytic image capturing device (7) provided at a position adjacent to the position that is conjugate with the photographic image capturing device (10) relative to the taking lens (1), that receives light forming the subject image guided to the viewfinder device (6) from the mirror (3) and outputs image data for scene analysis. Sasakura teaches in Figure 5 and on Column 6, Lines 5-20 the use of a system controller (14) or (arithmetic operation circuit) that

Art Unit: 2612

is supplied with the image data for scene analysis output by the analytic image capturing device (7). And calculates in advance coefficients to be used for image processing based upon the image data for scene analysis. Sasakura teaches in Figure 5 and on Column 6, Lines 5-20 the use of an image processing circuit (11) or analyzing circuit that performs image processing on the image data output by the photographic image-capturing device (10) using the parameters calculated at the arithmetic operating circuit (14).

Sasakura does not teach that the mirror (2) can be a quick return mirror. Konno et al teaches on Column 3, Lines 38-45 and in figure 1 the use of a quick return mirror arranged to be swingable into two different states. Konno et al teaches that one of the states is a state in which the mirror is outside of a photo-taking interchangeable lens barrel.

Therefore, it would have been obvious to one of ordinary skill in the art at the time the invention was made to replace the mirror of Sasakura with a quick return mirror as taught by Konno et al in order to allow the mirror to be hidden from view when a lens barrel is removed in order to prevent dirt and dust from accumulating on the mirror.

Allowable Subject Matter

Claims 8 and 18 would be allowable if rewritten to overcome the rejection(s) under 35 U.S.C. 112, second paragraph, set forth in this Office action and to include all of the limitations of the base claim and any intervening claims.

Conclusion

The prior art made of record and not relied upon is considered pertinent to applicant's disclosure. USPN 6,072,526 Hashimoto et al; USPN 4,887,121 Pritchard; USPN 5,808,681

Art Unit: 2612

Kitajima; USPN 5,262,867 Kojima; USPN 5,438,363 Ejima et al; USPN 5,625,434 Iwane; USPN 5,602,412 Suzuki et al; USPN 4,623,932 Inoue et al; USPN 4,647,979 Urata.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to James M Hannett whose telephone number is 703-305-7880. The examiner can normally be reached on 8:00 am to 5:00 pm M-F.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Wendy Garber can be reached on 703-305-4929. The fax phone numbers for the organization where this application or proceeding is assigned are 703-872-9314 for regular communications and 703-842-9314 for After Final communications.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to customer service whose telephone number is 703-308-6789.

James Hannett Examiner Art Unit 2612

JMH January 13, 2003

> WENDY'R. GARBER SUPERVISORY PATENT EXAMINER TECHNOLOGY CENTER 2600